
Subject: Visit report Brandenburger from 06/05/2012 6/5/2012 9:58:55 PM
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Priority: Normal
Attachments: 1

Visit report Brandenburger 140,288 6/5/2012 11:52:39
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enclosed.

Mr. Boutrid, I have the samples in my car. Please let us discuss the details soon, which I may not be able to present in the report.

Yours sincerely
Dr. Kurt Stark
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MACHINE TRANSLATION

Visit report

Kunde/Customer: BRANDENBURGER, 76829 Landau/Pfalz

Date: 05.06.2012

Participants: Dr. Stark, BUEGO.FOL;
Mr. Gütermann, Rüdiger Kinzebach (Team Leader R&D), Peter Duttenhöfer (Product Manager),
Mr. Zügel (Process and AT), Michael Haas (Head of QA), BRANDENBURGER

cc: Gregor Schleicher, Dr. FS, Ms. Gürtner, Dr. Boutrid, T. Abfall

Topic/Topics	Responsibility	Zu erledigt bis/ to be completed before
1. inner tube foil - call for help! We have already been informed of the "blanket complaints" about film tears when removing the inner tube film after resin curing. These are: 2006: 0 2007: 2 2008: 8 2009: 10 2010: 49 could something have happened here? 2011: 56 2012: 29 (to date) This is a huge problem for Brandenburger, they lose customers and their good reputation. The problem mainly occurs with smaller DN's 200 to 300. Despite 1000 % elongation in the tensile test, PA (presumably) splits radially in the hose even at 10 % elongation. Possible causes were discussed intensively: - Adhesion and interaction of the film with the resin; film sticks properly to the resin in some cases and cannot be removed without destroying it (additional costs due to loss of time, use of robots, etc.). Film not "homogeneous". - Outer layer cracks, adhesion promoter gets through to the resin?; other adhesion promoter? - Humidity, water content, "softener" - Storage of the film; ageing? - Crystal vs. amorphous areas in PA - Problem with our raw materials? - Layer thickness distribution +/- 20% PA and PE - PA leaking?? Spills? Holes?	Dr. Boutrid; KS Microtome sections Hydrotracer measurement? DSC? Control? MS?	ASAP

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Created on 05.06.2012

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 ACTION: We need to find an alternative outer film/fleece product.	Opposition Lantor patent?	
4. Inner foil with fleece I have received samples! Can be sealed to the hose. - Objective: The inner foil should remain in place for > 50 years. - Resistant to abrasion, rinsing and chemicals - Sealing seam must be 100 % tight - Fleece must not melt! - PE-PA-PE (non-woven) or PE/PA (non-woven) - When sealing comes inside against outside (overlapping) - PE fleece? Polyester? - According to Brandenburger, PA is more difficult to conceal - Adhesive not favored (as fleece can then absorb less resin) - Better thermal lamination Here I referred to our extensive experience in the LM sector with regard to thermal lamination. ACTIONS: • Start project, find solution	AB/KS/GS Analysis	07 - 12/2012
5. NEW: black "resin protection film" Requirement approx. 75,000 sqm/a; protection for prepreg rolls. Formats in width 1200 mm x 1200 mm or 1200 mm x 1300 mm ls glued. Currently Colamin film from Obermühle. You want cheaper film, and not so stiff. Analyze thickness and structure I have received samples AKTIONEN: • Adjust the foil	AB/KS Format cutter ? Analysis	07 - 12/2012
6. other Metal-coated conductive foil. A request from Mr. Zügel. Strips, width 3-4 cm, approx. 1 cm metal layer at the edges (no aluminum, no copper; better Ni) ACTION: Specialty. KS asks why not the entire strip may be metallized.	KS	If required
7. next date: Brandenburger wishes wishes also higher visitor frequency on our part. Next date September 2012 at the latest.		

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